

## INTERNATIONAL SEARCH REPORT

NL/2004/000732

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 E01B19/00 E01B5/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 E01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section PQ, Week 200145 Derwent Publications Ltd., London, GB; Class Q41, AN 2001-422705 XP002314122 -& JP 2001 140201 A (ZH TETSUDO SOGO GIJUTSU KENKYUSHO) 22 May 2001 (2001-05-22) abstract	1,6,7,9, 11-16
X	DE 262 330 C (ERLAND ZEIL) 10 July 1913 (1913-07-10) claim 1; figures 1-6	1,2,6
A		9
X	US 1 546 753 A (RUGGIERO ANGELO F) 21 July 1925 (1925-07-21) claim 1; figures 1,3	1,3,7
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

19 January 2005

Date of mailing of the international search report

31/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

De Neef, K

## INTERNATIONAL SEARCH REPORT

PCT/NL2004/000732

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 140 056 C (ERNST SCHLEGEL) 8 April 1903 (1903-04-08) figures 1,2 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/NL2004/000732

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2001140201	A	22-05-2001	NONE
DE 262330	C		NONE
US 1546753	A	21-07-1925	NONE
DE 140056	C		NONE